

**ABSTRACT OF THE DISCLOSURE**

**LIGHT HOLE INSPECTION SYSTEM FOR ENGINE COMPONENT**

A hole inspection system having a light source emitting light over its length and a multi-axes machine having a camera mounted thereon. After  
5 the light source is inserted into a cavity intersecting the complex holes, a control commands the multi-axes machine to move the camera to an inspection position associated with one of the complex holes. The control processes substantially only light intensity values received from the camera that represent light shining through the one of the complex holes. Next, a maximum intensity value of light  
10 received by the camera from the one of the complex holes is determined. The maximum intensity value is compared to a threshold value, and error data is created that identifies the one of the complex holes in response to the maximum intensity value being less than the threshold value.